L	Hits	Search Text	DB	Time stamp
Number 1	81415	lid	USPAT	2003/11/20
2	10192	FCC	USPAT	15:41 2003/11/20
3		reactor	USPAT	15:41 2003/11/20
4	517	FCC adj reactor	USPAT	15:41 2003/11/20
5		lid with (FCC adj reactor)	USPAT	15:41 2003/11/20
6	0	(FCC adj reactor) and lid	USPAT	15:41   2003/11/20
7	76757		USPAT	15:42 2003/11/20
			USPAT	15:42
8		lid same cracking		15:42
9	15	reactor and (lid same cracking)	USPAT	2003/11/20 15:45
10	1	("5908804").PN.	USPAT	2003/11/20 16:50
11	49634	regenerator regeneration	USPAT	2003/11/20 15:45
12	29	lid with (regenerator regeneration)	USPAT	2003/11/20 15:45
13	233456	catalyst	USPAT	2003/11/20 15:45
14	0	(lid with (regenerator regeneration))	USPAT	2003/11/20
15	1	(lid with (regenerator regeneration)) and catalyst	USPAT	2003/11/20
16	120241	door	USPAT	2003/11/20
17	21	(regenerator regeneration) with door	USPAT	2003/11/20
18	4	((regenerator regeneration) with door)	USPAT	2003/11/20
19	42271	fluidized fluidize fluidise fluidised fluidization	USPAT	2003/11/20
20	43	door with (fluidized fluidize fluidise fluidise)	USPAT	2003/11/20
21	2	catalyst and (door with (fluidized fluidize fluidise fluidised	USPAT	2003/11/20 15:47
22	201870	fluidization)) hydrocarbon	USPAT	2003/11/20
23	3	(door with (fluidized fluidize fluidise	USPAT	15:48 2003/11/20
24	469117	fluidised fluidization)) and hydrocarbon distributor distribution	USPAT	15:48 2003/11/20
25	23	(door with (fluidized fluidize fluidise fluidised fluidization)) and (distributor	USPAT	15:48   2003/11/20   15:50
26	3	distribution) ("5294094"   "5332139"   "5423370").PN.	USPAT	2003/11/20
27	1	("4752061").PN.	USPAT	15:49 2003/11/20
28	730727		USPAT	15:52 2003/11/20 15:53
29	438093	injector nozzle nozzles tuyere tuyeres pipe pipes	USPAT	2003/11/20 15:53
30	679363	downward downwards downwardly	USPAT	2003/11/20 15:53
31	1961	(distribution distributor injection injector) with (nozzle nozzles tuyere tuyeres pipe pipes	USPAT	2003/11/20
		) with (downward downwards downwardly)		

32	1836097	advantage advantages benefit benefits	USPAT	2003/11/20 15:54
33	31	((distribution distributor injection	USPAT	2003/11/20
		injector) with (nozzle nozzles tuyere		15:56
	!	tuyeres pipe pipes	i i	
1		) with (downward downwards downwardly))	Ì	1
	!	same (advantage advantages benefit benefits)	I I	
34	140984		USPAT	2003/11/20
25	3.410000	la a lád sama a sama	USPAT	16:02 2003/11/20
35	1412898	door lid cover opening	USPAI	16:03
36	604157	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	USPAT	2003/11/20
i 37	174	cleaned   reactor with (door lid cover opening)	USPAT	16:03 2003/11/20
,	1,1	with (service servicing clean cleaning		15:57
38	10	serviced cleaned) cracking and (reactor with (door lid	USPAT	2003/11/20
30	19	cover opening) with (service servicing	OBERT	15:57
		clean cleaning serviced cleaned))	110000	2003/11/20
39	1	(fluidized fluidize fluidise fluidised fluidization) and (cracking and (reactor	USPAT	15:58
į.		with (door lid cover opening) with		ĺ
ļ	! [	(service servicing clean cleaning serviced cleaned)))	İ	
40	17	(fluidized fluidize fluidise fluidised	USPAT	2003/11/20
	ĺ	fluidization) and (reactor with (door lid cover opening) with (service servicing		15:59
		clean cleaning serviced cleaned))	<u> </u>	
41	55183	reactor	USOCR	2003/11/20
42	654775	  door lid cover	usocr	2003/11/20
10	200075			16:03
43	330235	service servicing clean cleaning serviced cleaned	USOCR	2003/11/20
44	13	reactor with (door lid cover ) with	USOCR	2003/11/20
		(service servicing clean cleaning serviced cleaned)		16:03
45	89907	sand	USPAT	2003/11/20
46	60973	cores foundry	USPAT	16:51
1 40	60973	Coles Toundry	USPAI	16:51
47	1844	sand near2 (cores foundry)	USPAT	2003/11/20
4.8	37875	fluidized	USPAT	16:51
j				16:51
49	171	(sand near2 (cores foundry)) and	USPAT	2003/11/20 16:51
50	391129	t · · · · · · · · · · · · · · · · · · ·	USPAT	2003/11/20
51	185789	solids	USPAT	16:51   2003/11/20
				16:51
52	1144363	metal metals	USPAT	2003/11/20 16:51
53	61541	(particles solids) with (metal metals)	USPAT	2003/11/20
E 4	27	//gand name (gang faundam)	II C D D m	16:52
54	21	((sand near2 (cores foundry)) and fluidized) and ((particles solids) with	USPAT	2003/11/20   17:01
	25501	(metal metals))		
55	155941	bed	USPAT	2003/11/20
56	1907	(metal metals) near2 bed	USPAT	2003/11/20
57	6	((sand near2 (cores foundry)) and	USPAT	16:55 2003/11/20
		fluidized) and ((metal metals) near2 bed)	İ	16:55
58	1	("6253830").PN.	USPAT	2003/11/20
_	1	("0443551").PN.	USPAT	2003/11/20
Ĺ	l		L	15:41

-	1	("4443551").PN.	USPAT	2002/10/02
_	8150	regenerator	USPAT	2002/10/02
_	37978	distributor	USPAT	18:31
-	158567	combustion	USPAT	15:04 2002/10/02
-	572	regenerator and distributor and	USPAT	18:31 2002/10/02
<u>:</u> 	167100	combustion fuel	USPAT	18:31 2002/10/02
<u> </u>	302	1 11 2	USPAT	18:31
-	860128	combustion) and fuel air	USPAT	18:31 2002/10/02
_	33195	combustion with fuel with air	USPAT	18:32 2002/10/02
-	66	regenerator and distributor and (combustion with fuel with air)	USPAT	18:32 2002/10/02 18:32
-	733065	1 '	USPAT	2002/10/02
_	253767	exchanger exchange	USPAT	10:32 2002/10/02 18:32
_	83129	heat adj (exchanger exchange)	USPAT	18:32   2002/10/02   18:32
_	49	(regenerator and distributor and (combustion with fuel with air)) and "17"	USPAT	2002/10/02
-	48	(regenerator and distributor and (combustion with fuel with air)) and	USPAT	2002/10/02 18:35
ĺ -	4	(heat adj (exchanger exchange)) (("5423370") or ("4512821") or	USPAT	2003/06/04
-	1	("4524957") or ("4547228")).PN. ("4223243").PN.	USPAT	15:10 2003/06/04
ļ <b>-</b>	1	("2798030").PN.	USPAT	14:54
_	87932	sand	USPAT	14:54 2003/06/04
-	3	((("5423370") or ("4512821") or ("4524957") or ("4547228")).PN.) and sand	USPAT	114:58 2003/06/04 15:00
_	1	("4443551").PN.	USPAT	2003/06/04
-	24	4443551.URPN.	USPAT	2003/06/04
-	10	("2608474"   "3466021"   "3647714"   "3680349"   "3890111"   "3927479"   "3974091"   "4051069"   "4223843"   "4322384").pN.	USPAT	2003/06/04 15:03
_	5	322364   FN.	USPAT	2003/06/04 15:04
-	1076311	metal	USPAT	2003/06/04 15:04
_	110484	casting castings	USPAT	2003/06/04
_	1273	sand with metal with (casting castings)	USPAT	2003/06/04
-	39288	distributor	USPAT	2003/06/04
_	22	(sand with metal with (casting castings)) and distributor	USPAT	2003/06/04 15:06
-	1811	debond debonding	USPAT	2003/06/04 15:06
_	0	distributor same (debond debonding)	USPAT	2003/06/04 15:07
_	2	(sand with metal with (casting castings)) same (debond debonding)	USPAT	2003/06/04 15:07
-	6425	sand with metal	USPAT	2003/06/04
				L

- 3	(debond debonding) with (sand with metal	USPAT	2003/06/04 15:07
- 14	4512821.URPN.	USPAT	2003/06/04
- 7373	reclaim reclaiming	USPAT	15:09 2003/06/04
- 165	sand near3 (reclaim reclaiming)	USPAT	15:53 2003/06/04
- 40255	fluidize fluidized fluidizing	USPAT	15:11 2003/06/04
- 5	distributor and ((sand near3 (reclaim reclaiming)) and (fluidize fluidized	USPAT	15:11 2003/06/04 15:11
72	fluidizing)) (sand near3 (reclaim reclaiming)) and	USPAT	2003/06/04
5	(fluidize fluidized fluidizing) ("3399637"   "3772999"   "3907674"	USPAT	15:22 2003/06/04
9	"4427375"   "4434726").PN. 5271450.URPN.	USPAT	15:33 2003/06/04
- 1076311	metal	USPAT	15:33 2003/06/04
- 554267	treatment treatments	USPAT	15:45 2003/06/04
- 44423	metal with (treatment treatments)	USPAT	15:45 2003/06/04
- 104	(fluidize fluidized fluidizing) with (metal with (treatment treatments))	USPAT	15:45 2003/06/04
- 2	<pre>(reclaim reclaiming) and ((fluidize fluidized fluidizing) with (metal with</pre>	USPAT	15:46 2003/06/04 15:51
- 443987	(treatment treatments))) aluminum	USPAT	2003/06/04
- 0	US-2798030-A.DID. and aluminum	USPAT	15:51 2003/06/04
- 3364	sand with aluminum	USPAT	15:52 2003/06/04
7423	reclaim reclaiming reclaimation	USPAT	15:52 2003/06/04
-   8	(sand with aluminum) same (reclaim reclaiming reclaimation)	USPAT	15:53 2003/06/04 16:01
- 1	("4752061").PN.	USPAT	2003/06/04 15:55
- 0	5202080.URPN.	USPAT	2003/06/04 15:56
- 1	"4563151".PN.	USPAT	2003/06/04
- 6		USPAT	2003/06/04
64	(sand with aluminum) same (fluidize fluidized fluidizing)	USPAT	2003/06/04
1.	("3053704").PN.	USPAT	2003/06/04
- 27	3053704.URPN.	USPAT	2003/06/04
9	5271450.URPN.	USPAT	2003/06/04
5	("3399637"   "3772999"   "3907674"   "4427375"   "4434726").PN.	USPAT	2003/06/04
4	US-5908804-\$.DID. OR US-3763830-\$.DID. US-3053704-\$.DID. US-4443551-\$.DID.	USPAT	2003/11/19
120241	door	USPAT	2003/11/19 16:00
0	(US-5908804-\$.DID. OR US-3763830-\$.DID. US-3053704-\$.DID. US-4443551-\$.DID.) and door	USPAT	2003/11/19 16:04
- 699099	cover	USPAT	2003/11/19
0	cover and (US-5908804-\$.DID. OR US-3763830-\$.DID. US-3053704-\$.DID. US-4443551-\$.DID.)	USPAT	16:04 2003/11/19 16:04

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	06076	fluidized adj bed	USPAT	2003/11/19
_	26976	fluidized adj bed	ODEAL	16:49
-	233456	catalyst	USPAT	2003/11/19
	0	(door same (fluidized adj bed)) same	USPAT	16:05   2003/11/19
! -	U	catalyst	OSPAI	16:05
-	67	door same (fluidized adj bed)	USPAT	2003/11/19
	206208	tuyere tuyeres nozzle nozzles	USPAT	16:08   2003/11/19
j -	200208	tuyere tuyeres nozzre nozzres	USFAI	16:09
-	580400	piping pipes distribution distributor	USPAT	2003/11/19
	9894	distributer   (tuyere tuyeres nozzle nozzles) near4	USPAT	16:09   2003/11/19
-	2024	(piping pipes distribution distributor		16:09
		distributer)	1102311	2003/11/19
-   1	971261	below beneath perpendicular perpendicularly	USPAT	16:25
-	496	((tuyere tuyeres nozzle nozzles) near4	USPAT	2003/11/19
		(piping pipes distribution distributor		16:10
1	١	distributer)) with (below beneath perpendicular perpendicularly)		
-	57	(fluidized adj bed) and (((tuyere tuyeres	USPAT	2003/11/19
		nozzle nozzles) near4 (piping pipes distribution distributor distributer))		16:10
1		with (below beneath perpendicular		
		perpendicularly))		0000/11/10
1	0	door and ((fluidized adj bed) and (((tuyere tuyeres nozzle nozzles) near4	USPAT	2003/11/19 16:10
i i		(piping pipes distribution distributor		10,10
	, i	distributer)) with (below beneath		
	12	perpendicular perpendicularly))) cover and ((fluidized adj bed) and	USPAT	2003/11/19
	1.2	(((tuyere tuyeres nozzle nozzles) near4		16:10
1	į	(piping pipes distribution distributor	Í	
		<pre>distributer)) with (below beneath perpendicular perpendicularly)))</pre>		
-	10	("2608474"   "3466021"   "3647714"	USPAT	2003/11/19
	i	"3680349"   "3890111"   "3927479"   "3974091"   "4051069"   "4223843"		16:11
	į	"4322384").PN.	54	
-	24	4443551.URPN.	USPAT	2003/11/19
_	564141	perpendicular perpendicularly "90	USPAT	16:20 2003/11/19
		degrees"		16:26
-	3137	(tuyere tuyeres nozzle nozzles) near3 (perpendicular perpendicularly "90	USPAT	2003/11/19 16:26
		(perpendicular perpendicularly 90	•	10:20
-	5715	"metal casting" "metal castings"	USPAT	2003/11/19
4	0	((fluidized adj bed) and ((tuyere tuyeres	USPAT	16:26 2003/11/19
	0	nozzle nozzles) near3 (perpendicular	USIAL	16:26
		perpendicularly "90 degrees"))) and		
	60	("metal casting" "metal castings") (fluidized adj bed) and ((tuyere tuyeres	USPAT	2003/11/19
	~ ~	nozzle nozzles) near3 (perpendicular		16:30
	4	perpendicularly "90 degrees")) ("6253830").PN.	TIGD M	2002/11/10
_	1	1 023303U ).FM.	USPAT	2003/11/19 16:31
-	3	("5294094"   "5332139"   "5423370").PN.	USPAT	2003/11/19
	0	6253830.URPN.	USPAT	16:30 2003/11/19
	J	SECOCO. OIL IV.		16:31
1-	918628	air	USPAT	2003/11/19
]	469117	distributor distribution	USPAT	16:31 2003/11/19
				16:31
-	12275	air near2 (distributor distribution)	USPAT	2003/11/19 16:32
-	846	(fluidized adj bed) and (air near2	USPAT	2003/11/19
		(distributor distribution))	<u> </u>	16:32

[-	988	(tuyere tuyeres nozzle nozzles) with (air	USPAT	2003/11/19
		near2 (distributor distribution))	USPAT	16:32
-	0	((perpendicular perpendicularly "90 degrees") with ((tuyere tuyeres nozzle	USPAI	16:32
1	1	nozzles) with (air near2 (distributor		1
i	!	distribution))) and (fluidized adj bed)		
_	11	(perpendicular perpendicularly "90	USPAT	2003/11/19
		degrees") with ((tuyere tuyeres nozzle		16:33
1		nozzles) with (air near2 (distributor		]
		distribution)))	USPAT	2003/11/19
-	1	("metal casting" "metal castings") and ((tuyere tuyeres nozzle nozzles) with	USPAI	16:34
		(air near2 (distributor distribution)))		1 20,01
	6	("metal casting" "metal castings") and	USPAT	2003/11/19
		((fluidized adj bed) and (air near2		16:35
		(distributor distribution)))		
-	8895	(tuyere tuyeres nozzle nozzles) with	USPAT	2003/11/19
	,	(perpendicular perpendicularly "90		16:35
_	15	degrees") ((fluidized adj bed) and (air near2	USPAT	2003/11/19
	13	(distributor distribution))) and ((tuyere		16:41
	İ	tuyeres nozzle nozzles) with		j
		(perpendicular perpendicularly "90		
1		degrees"))	****	2002/11/12
-	1	("5271450").PN.	USPAT	2003/11/19
\_	5	("3399637"   "3772999"   "3907674"	USPAT	2003/11/19
1		["4427375"   "4434726").PN.	SOLVII	16:41
! -	10	5271450.URPN.	USPAT	2003/11/19
!				16:44
-	11	("4226830"   "4645452"   "4693682"	USPAT	2003/11/19
ī	1	"4841884"   "5006062"   "5020451"		16:46
	!	"5063028"   "5093085"   "5138958"   "5239945"   "5271450").PN.		1
1_	1	5452669.URPN.	USPAT	2003/11/19
Ĭ	-			16:47
_	296966	array	USPAT	2003/11/19
			-10 D > III	16:48
1	2408838	below beneath under	USPAT	2003/11/19
1_	19437	(tuyere tuyeres nozzle nozzles) near3	USPAT	2003/11/19
	1313,	(below beneath under)	002112	16:48
-	276	(distributor distribution) with ((tuyere	USPAT	2003/11/19
İ	ļ	tuyeres nozzle nozzles) near3 (below	1	16:48
	25255	beneath under))	110000	2002/11/10
-	37875	fluidized	USPAT	2003/11/19
_	27	((distributor distribution) with ((tuyere	USPAT	2003/11/19
1	""	tuyeres nozzle nozzles) near3 (below		16:50
	Ì	beneath under))) and fluidized		
-	89907	sand	USPAT	2003/11/19
}	12410		II CDD C	16:50
[ -	11419	sand and (tuyere tuyeres nozzle nozzles)	USPAT	2003/11/19
} _	57933	air with (tuyere tuyeres nozzle nozzles)	USPAT	2003/11/19
	0,555	in the state of the state of the state of	,	16:50
1 -	3088	sand and (air with (tuyere tuyeres nozzle	USPAT	2003/11/19
ţ		nozzles))		16:51
-	94	reclaimation	USPAT	2003/11/19
j _	ĺ o	! :(sand and (air with (tuyere tuyeres	USPAT	16:51 2003/11/19
į =		nozzle nozzles))) and reclaimation	OSIAI	16:51
-	580	fluidized and (sand and (air with	USPAT	2003/11/19
}	ļ.	(tuyere tuyeres nozzle nozzles)))		16:51
-	32		USPAT	2003/11/19
1	10100	with (tuyere tuyeres nozzle nozzles))))	TIED DE	16:58
[ -	10192	FCC	USPAT	2003/11/19
i -	120241	door	USPAT	2003/11/19
	1	<u></u>		16:58
	~		<del></del>	

	436	FCC and door	USPAT	2003/11/19 16:58
-	233456	catalyst	USPAT	2003/11/19
_	71	door with catalyst	USPAT	2003/11/19
-	2	FCC and (door with catalyst)	USPAT	2003/11/19
-	10192	FCC	TAGEU	2003/11/20 11:26
~	120241	door	USPAT	2003/11/20 11:27
: <u>-</u>	562008	service servicing clean cleaning	USPAT	2003/11/20 11:27
-	6199	door with (service servicing clean	USPAT	2003/11/20 11:07
-	18	cleaning)   FCC and (door with (service servicing   clean cleaning))	USPAT	2003/11/20
-	76757	cracking	USPAT	2003/11/20
-	126	(door with (service servicing clean cleaning)) and cracking	USPAT	2003/11/20
-	40783	fillidized fluidize fluidise fluidised	USPAT	2003/11/20
-	8	((door with (service servicing clean cleaning)) and cracking) and (fluidized	USPAT	2003/11/20
-	27	fluidize fluidise fluidised) FCC with door	USPAT	2003/11/20 11:20
_	1498006	cover closure opening window	USPAT	2003/11/20 11:20
-	38323	(service servicing clean cleaning) with (cover closure opening window)	USPAT	2003/11/20
-	178361	reactor regenerator regeneration	USPAT	2003/11/20
-	1287	FCC with (reactor regenerator regeneration)	USPAT	2003/11/20
	7	((service servicing clean cleaning) with (cover closure opening window)) and (FCC	USPAT	2003/11/20 15:56
	1	with (reactor regenerator regeneration)) (fluidized fluidize fluidise fluidised) with (door with (service servicing clean cleaning))	USPAT	2003/11/20
-	12		USPAT	2003/11/20
-	1074	FCC	USOCR	2003/11/20
-	109596	door	USOCR	2003/11/20
-	305570	service servicing clean cleaning	USOCR	2003/11/20
_	5067	door with (service servicing clean cleaning)	USOCR	2003/11/20
-	2		USOCR	2003/11/20
-	11339	fluidized fluidize fluidise fluidised	USOCR	2003/11/20 11:28
-	5	(fluidized fluidize fluidise fluidised) same (door with (service servicing clean cleaning))	USOCR	2003/11/20   11:27
-	471	FCC	EPO; JPO	2003/11/20
-	15312	fluidized fluidize fluidised	EPO; JPO	2003/11/20 11:28
-	87269	door	EPO; JPO	2003/11/20
1-	227824	service servicing clean cleaning	EPO; JPO	2003/11/20 11:28

- ! 1	(door with (service servicing clean	EPO; JPO	2003/11/20
	cleaning)) same (FCC or (fluidized		11:29
	fluidize fluidise fluidised))		